

Product Data Sheet

Product Name: (-)-Pinoresinol

Cat. No.: GC90533

Chemical Properties

Cas. No. 81446-29-9

Formula $C_{20}H_{22}O_6$

M.Wt 358.4

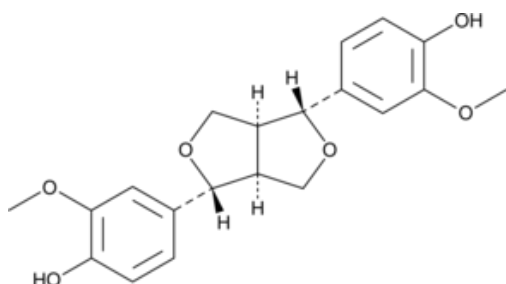
Solubility Acetone: soluble, Chloroform: soluble, Dichloromethane: soluble, DMSO: soluble, Ethyl Acetate: soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

(-)-Pinoresinol is a lignan that has been found in *Manihot esculenta* and has diverse biological activities.^{1,2,3} It scavenges DPPH and ABTS radicals in cell-free assays (EC_{50} s = 0.2 and 0.055 mg/ml, respectively).¹ (-)-Pinoresinol selectively inhibits 5-lipoxygenase (5-LO) and 15-LO over COX-2 (IC_{50} s = 13.8, 3.5, and >100 μ M, respectively).² It also inhibits LPS-induced nitric oxide (NO) production in BV-2 microglial cells (IC_{50} = 34.25 μ M).³

Caution: Product has not been fully validated for medical applications. For research use only.

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